



April 14, 1994

Ms. Liza Montalvo  
Residual Project Manager  
Kentucky/Tennessee Section  
U. S. Environmental Protection Agency  
Region IV  
345 Courtland Street, N. E.  
Atlanta, Georgia 30365

**Re: Report of Field Observation - FY 94, Third Quarter (FY94-3Q),  
Lees Lane Superfund Site, Jefferson County, Kentucky,  
Administrative Order on Consent, USEPA Docket No. 91-32-C**

Dear Ms. Montalvo:

In accordance with Paragraph 11, under the heading Reporting Requirements, of the subject Consent Order and Attachment 1, Operation and Maintenance Plan For Post-Removal Site Control at the Lees Lane Landfill Site, I am enclosing one (1) copy of the Report of Field Observation (Appendix J), identified as Observation Report No. FY94-3Q, for your information and files.

Please advise if you have any questions concerning the attached Report of Field Observation for FY94-3Q.

Very truly yours,

  
C. A. Neumayer  
Director of Operations

CAN/dc  
CAN32-1X

**DOCUMENT CONTROL NUMBER** 4400-83-AGVB

Enc.

cc: Kentucky Natural Resource Environment Protection Cabinet  
ATTN: Mr. Rick Hogan, Division of Waste Management  
G. R. Garner, Executive Director  
File WD-2 (Lees Lane M&M Quarterly)



10861876

REPORT OF FIELD OBSERVATION  
LEE'S LANE LANDFILL SITE, LOUISVILLE, KENTUCKY

Observation Report No: FT94 - 30 Date of Observation: 3/17/94  
Time Arrived Onsite: 11:25 a.m. Time Departed Site: 12:50 p.m.  
Field Personnel: C. A. Neumayer, Director of Operations and R. H. Watkins,  
Support Services Administrator, Maintenance Division

Section A: General Site Conditions

Observation:	Yes*	No	Not Observed	Comment No.
1. Major settlement of topsoil or erosion exposing waste/ fill material	<u>X</u>	<u>—</u>	<u>—</u>	<u>A-1</u>
2. Evidence of leachate seepage	<u>—</u>	<u>X</u>	<u>X</u>	<u>A-2</u>
3. Distressed Vegetation	<u>—</u>	<u>X</u>	<u>—</u>	<u>—</u>
4. Pot holes, erosion of access road	<u>X</u>	<u>—</u>	<u>—</u>	<u>A-4</u>

Note: Standing water because of heavy snow melt and rains during FY94 - 30.

Section B: Institutional Controls

Observation:	Yes*	No	Not Observed	Comment No.
1. Structural problem with Lee's Lane gate or barricade	<u>—</u>	<u>X</u>	<u>—</u>	<u>—</u>
2. Structural problem with Putman Ave. barricade	<u>—</u>	<u>X</u>	<u>—</u>	<u>B-2</u>
3. Lee's Lane gate unlocked	<u>—</u>	<u>X</u>	<u>—</u>	<u>—</u>
4. Broken or missing lock	<u>—</u>	<u>X</u>	<u>—</u>	<u>—</u>

Section C: Gas Collection System

Observation:	Yes*	No	Not Observed	Comment No.
1. Vandalism to blower house, wells, or moisture traps	<u>X</u>	<u>—</u>	<u>—</u>	<u>A-1</u>
2. Structural damage to blower house	<u>—</u>	<u>X</u>	<u>—</u>	<u>—</u>
3. Blower not operating or visible damage	<u>—</u>	<u>X</u>	<u>—</u>	<u>—</u>
4. Blower house not secure and unclean	<u>—</u>	<u>X</u>	<u>—</u>	<u>—</u>

Observation:	<u>Yes*</u>	<u>No</u>	<u>Not Observed</u>	<u>Comment No.</u>
5. Service box lids not in place	—	<u>X</u>	—	—
6. Alarm and blower controls not functioning	—	<u>X</u>	—	—
7. Settlement or tilting of well/moisture trap concrete collars	<u>X</u>	—	—	<u>C-7</u>
8. Well/moisture trap covers missing or damaged	—	<u>X</u>	—	—
9. Excessive vegetation covering wells/moisture traps	—	<u>X</u>	—	—
10. Adjustment valve inaccessible	—	<u>X</u>	—	—
11. Well/moisture trap caps, plugs, and piping missing or damaged	<u>X</u>	<u>X</u>	—	<u>C-11</u>
12. Blower house and well/moisture trap signs missing or damaged	<u>X</u>	—	—	<u>C-12</u>

#### Section D: Groundwater & Gas Monitor Wells

Observation:	<u>Yes*</u>	<u>No</u>	<u>Not Observed</u>	<u>Comment No.</u>
1. Wells unlocked	—	<u>X</u>	—	—
2. Guard posts and rails missing or damaged	<u>X</u>	—	—	<u>D-2</u>
3. Protective casing missing, damaged or rusted	—	<u>X</u>	—	—
4. Concrete pads damaged or cracked	<u>X</u>	—	—	<u>D-4</u>
5. Possible surface water infiltration into wells	—	<u>X</u>	—	—
6. Excessive vegetation or debris around wells	—	<u>X</u>	—	—
7. Well cap missing or damaged	—	<u>X</u>	—	—
8. Tubing, fittings, and valves missing or damaged (gas wells only)	—	—	<u>X</u>	<u>D-8</u>



## Section E: Bank Protection Controls

Observation:	Yes*	No	Not Observed	Comment No.
1. Subsidence of slope, sloughing or caving	—	X	—	—
2. Erosion of rip-rap or underlying material	—	X	X	E-2
3. Abnormally damp areas, wet ground vegetation	—	X	—	—
4. Soft spots in surface	X	—	—	E-4
5. Seepage, water flow, piping, or sand boils	—	X	X	E-5
6. Undermining of rip-rap	—	X	—	—
7. Vegetative growth on rip-rap slope	X	—	—	E-7
8. Buildup of trash and debris on rip-rap	X	—	—	E-8
9. Exposed trash or filter fabric	—	X	—	—
10. Tilting trees	—	X	—	—
11. Tension cracks	—	—	—	—
12. Survey monuments missing or damaged	—	X	—	—

## Section F: Surface Waste Cleanup/Cover

Observation:	Yes*	No	Not Observed	Comment No.
1. Swales greater than 1 foot wide and 2 inches deep	—	X	—	F-1
2. Cracks greater than 1 inch wide and 6 inches deep	—	X	—	F-2
3. Areas of erosional damage to grass	—	—	—	—
4. Inadequate grass cover (area > 36 ft <sup>2</sup> )	—	—	—	—
5. Ponded water (area larger than 2 feet in diameter and 3 inches deep)	—	X	—	F-5
6. Erosion or ponded water greater than 12 inches deep (requires immediate repair)	—	X	—	—

\* If yes, assign a comment no. in the last column and follow instructions on comment sheet.

REPORT OF FIELD OBSERVATION  
LEE'S LANE LANDFILL SITE, LOUISVILLE, KENTUCKY

Observation Report No. FY94 - 3Q      Date of Observation: 3/17/94

**Instruction:**      If any item is checked yes, provide details of the problem and maintenance recommendations below and indicate the location deficiency on the site map provided.

**Comment No:**

**Comment**

A-1	Observed rutted area in the vicinity of Gas Collection Well No. 6. Also, rutted areas noted along the levee road caused by ATVs. No landfill cap material exposed in the vicinity of Well No. 6.
A-2	Unable to view evidence of leachate seepage because of high Ohio River lower pool water elevations at the bottom of riprap protection for the landfill cap area.
A-4	Observed several depressed and rutted areas along the graveled roadway leading to Groundwater Monitoring Well No. 5.
B-2	Conditions at the Putman Avenue barricade were unchanged from those observed during prior quarterly inspections. The additional security cable installed by MSD continues to prevent unauthorized entry to the site from the immediate adjacent residential properties located at the end of Putman Avenue.

**Comment No.**

**Corrective Action Performed**

A-1	Rutted area in the vicinity of Gas Collection Well No. 6 needs to be filled in along with depression on the levee road as part of MSD flood wall levee maintenance activities as rapidly as weather conditions permit and should be completed by the end of FY 94 - 4Q.
A-2	No corrective action required at this time.
A-4	Rutted and depressed areas along gravel access road to Groundwater Monitoring Well No. 5 to be filled with gravel material as soon as weather condition permit during FY 94 - 4Q
B-2	No corrective action required at this time.



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LEE'S LANE LANDFILL SITE, LOUISVILLE, KENTUCKY

Observation Report No. FY94 - 3Q Date of Observation: 3/17/94

Instruction: If any item is checked yes, provide details of the problem and maintenance recommendations below and indicate the location deficiency on the site map provided.

Comment No:

Comment

C-1

Observed significant evidence of small arms fire damage to the Blower House concrete block walls and warning signs. Newly installed electrical outlet box also damaged by small arms fire.

C-2

No significant structural damage to the Blower House was observed at the time of inspection except for the chipping of the concrete block walls by small arms fire.

C-7

Observed several gas collection well and moisture trap concrete collars damaged presumably as a result of site mowing activities. This damage has been previously reported during prior quarterly observations.

Comment No.

Corrective Action Performed

C-1

Small arms fire damage to concrete block walls of the Blower House to be patched when weather and work schedules permit and should be completed by the end of FY 94 - 4Q.

C-2

No corrective action required at this time.

C-7

Damaged concrete well and moisture trap collars to be scheduled for repair or replacement following installation of remaining Gas Collection System markers during FY94 - 4Q

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LEE'S LANE LANDFILL SITE, LOUISVILLE, KENTUCKY

Observation Report No. FY94 - 30 Date of Observation: 3/17/94

Instruction: If any item is checked yes, provide details of the problem and maintenance recommendations below and indicate the location deficiency on the site map provided.

Comment No:

Comment

C-11

Need to verify the vacuum conditions of the well field piping system between Gas Collection Wells No. 1 and No. 14, inclusive. Arrangements for investigation of vacuum conditions depends on the scheduling between MSD's Urban Area, Maintenance Section, the Maintenance Division, Wastewater Repair Department, and improved weather conditions which have saturated the site.

C-12

Observed that MSD maintenance forces have not completed installation of all well and moisture trap markers. Adverse weather conditions and other scheduled work activities have delayed completion of this work.

Comment No.

Corrective Action Performed

C-11

Vacuum testing to be scheduled in order to verify which Gas Collection Wells are not functioning properly. Following verification, selective exploratory excavation work will be performed to expose several well head and moisture traps in order to determine what the malfunctions are causing the lack of vacuum on the collection wells. Depending on work schedules and weather conditions this work should be performed on or before the end of FY94 - 4Q.

C-12

MSD maintenance forces need to schedule completion of the remaining swale and moisture trap markers and proper numerical identification of each. The swale and moisture trap marker installation should be completed before the end of FY94 - 4Q.



REPORT OF FIELD OBSERVATION  
LEE'S LANE LANDFILL SITE, LOUISVILLE, KENTUCKY

Observation Report No. FY94 -30 Date of Observation: 3/17/94

**Instruction:** If any item is checked yes, provide details of the problem and maintenance recommendations below and indicate the location deficiency on the site map provided.

Comment No:	Comment
D-2	Observed a portion of the horizontal guardrail missing on Gas Well No. 1.
D-4	Observed damage and cracking of concrete seal pads on Groundwater Monitoring Wells No. 1, 2, and 3.
D-8	Condition of tubing and fittings at Gas Monitoring Wells could not be observed because all security locks were closed and in place.
E-2	Unable to observe any significant erosion of riprap or underlying material because of high lower pool river elevations.

Comment No.	Corrective Action Performed
D-2	Repair of guard rail on Gas Monitoring Well No. 1 to be completed before the end of FY94 -4Q.
D-4	Replacement of cracked monitoring well seal pads to be completed before the end of FY94 -4Q.
D-8	No corrective action required.
E-2	Arrangements to be made for procurement of an independent contractor to spray for control of excessive vegetative growth in riprap section with approved herbicide prior to the end of FY94 - 4Q in order to observe condition of riprap and underlying materials.



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Observation Report No. FY94 - 30 Date of Observation: 3/17/94

**Instruction:** If any item is checked yes, provide details of the problem and maintenance recommendations below and indicate the location deficiency on the site map provided.

**Comment No:**

**Comment**

E-4	Minor depression observed approximately 50 feet south of benchmark No. 4 and just east of the access road in the vicinity of the shale ditch swale.
E-5	Unable to observe any significant seepage, water flow, piping, or sand boils.
E-7	Observed some evidence of spotty areas of vegetative growth in the upper portion of the central track riprap section protecting the clay cap area. The vegetative growth was noted to be dormant because of the winter season.
E-8	Observed evidence of drift debris deposited by the high Ohio River water levels. This drift has been deposited on the lower portion of the riprap section of the clay cap bank and is substantially the same as observed during prior quarterly institutional inspections.

**Comment No.**

**Corrective Action Performed**

E-4	Depressed area to be back filled with dirt, seeded and observed during subsequent quarterly institutional inspections for any recurrence of condition observed. This back filling work to be completed prior to the end of FY94 - 40.
E-5	No further action required.
E-7	Refer to E-2 above.
E-8	No corrective action proposed to remove drift from riprap section of clay cap area because of the lack of proper access. Drift debris is not causing any problems at this time.





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LEE'S LANE LANDFILL SITE, LOUISVILLE, KENTUCKY

Observation Report No. FY 94 - 3Q

Date of Observation 3/17/94

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Site Map

Signature of Observer: 

Date: April 14, 1994

Carl A. Neumayer